CONTENTS

Tectonophysics Volume 170

Research Papers

Plate boundary forces at subduction zones and trench-arc compression
Bott, M.P.H., Waghorn, G.D. and Whittaker, A. (Durham, U.K.) 1

Late brittle deformation in a Caledonian ductile thrust wedge: new evidence for gravitational collapse in the Moine Thrust sheet, Sutherland, Scotland
Holdsworth, R.E. (Reading, U.K.) 17

Intraplate seismicity and stress in the southeastern United States
Kuang, J., Long, L.T. (Atlanta, Ga., U.S.A.) and Mareschal, J-G. (Montreal, Que., Canada) 29

Clustered, rectangular lakes of the Canadian Old Crow Basin
Allenby, R.J. (Greenbelt, Md., U.S.A.) 43

Fold reactivation involving angular unconformable sequences: theoretical analysis and natural examples from the Cantabrian Zone (Northwest Spain)
Alonso, J.L. (Oviedo, Spain) 57

Stratigraphic interpretation of amplitude processed seismic data: a case history in the Lombardian Plain
Mazzotti, A. and Mirri, S. (Milan, Italy) 79

Crustal block movements from Holocene shorelines: Rhodes Island (Greece)
Pirazzoli, P.A. (Meudon-Bellevue, France), Montaggioni, L.F. (Sainte-Clotilde, Réunion Island, France, D.O.M.), Saliège, J.F., Segonzac, G. (Paris, France), Thommeret, Y. (Monaco) and Vergnaud-Grazzini, C. (Paris, France) .. 89

Southern limits of major earthquake ruptures along the Himalaja between longitudes 75° and 90°E
Chander, R. (Roorkee, India) 115

Tectonic aspects of intraplate seismicity in the northeastern Indian Ocean
Levchenko, O.V. (Moscow, U.S.S.R.) 125

Development of snowball structure: numerical simulation of inclusion trails during synkinematic porphyroblast growth in metamorphic rocks
Masuda, T. and Mochizuki, S. (Shizuoka, Japan) 141

Boudinage in homogeneous foliated rocks
Mandal, N. and Karmakar, S. (Calcutta, India) 151

Letter Section

A relationship between crustal thickness and mean crustal velocity
Wever, Th. and Sadowiak, P. (Kiel, F.R.G.) 159

Pre-seismic responses of underground water level and temperature concerning a 4.8 magnitude earthquake in Greece on October 20, 1988
Asteriadis, G. and Livieratos, E. (Thessaloniki, Greece) 165

Research Papers

Strain partitioning and deformation mode analysis of the normal faults at Red Mountain, Birmingham, Alabama
Wu, S. (Tuscaloosa, Ala., U.S.A.) 171

Fold-axis parallel extension in an arcuate fold- and thrust belt: the case of the Helvetic nappes
Dietrich, D. (Zürich, Switzerland) 183

Mesozoic evolution of the upper mantle beneath the eastern Pyrenees: evidence from zenoliths in Triassic and Cretaceous alkaline volcanics of the eastern Corbières (France)
Azambre, B. and Fabriès, J. (Paris, France) 213

Evidence for variations of mechanical properties in the Friuli seismic area
Mao, W.J. (Trieste, Italy), Ebblin, C. (L'Aquila, Italy) and Zadro, M. (Trieste, Italy) 231

Source parameters of selected earthquakes on the central and western margin of Afar
Kebede, F. and Kulhánek, O. (Uppsala, Sweden) 243

The northern Hebrides back-arc troughs: history and relation with the North Fiji basin
Charvis, P. and Pelletier, B. (Nouméa, New Caledonia, France D.O.M.) 259

The paleomagnetism of eastern Nazca plate seamounts
Hildebrand, J.A. (San Diego, Calif., U.S.A.) 279

Characterization of various types of deformation and their corresponding deviatoric stress tensors using microfault analysis
Guiraud, M., Laborde, O. and Philip, H. (Montpellier, France) 289

Errata 317

Contents Volume 170 319

Subject Index Volumes 157–170 321